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Amendment to the Claims:

1. (Currently Amended) A vacuum device comprising:
 - a plurality of cryopumps connected with one or more vacuum chambers,
 - 5 a compressor means connected via media supply conduits and media return conduits with the plurality of cryopumps,
 - an adjusting means connected before each of at least one of the cryopumps for controlling the amount of media fed to the corresponding cryopump during cooling, the adjusting means including a throttle device arranged in the corresponding media supply conduit to supply the cryopump with a first amount of
 - 10 media and a valve in a bypass conduit to increase the supply of the media to the corresponding cryopump,
 - a temperature measuring device connected with each of the at least one the-cryopumps, and
 - 15 a controller connected with the adjusting means and the temperature measuring device of each of the at least one cryopumps,
 - wherein in response to a temperature of one of the cryopumps rising, the controller controls the valve in the corresponding bypass conduit to increase the media supplied and reduce the temperature of the corresponding cryopump
 - 20 the adjusting means comprising a throttle means arranged in the corresponding media supply conduit and a valve arranged in a throttle bypass conduit.
2. (Currently Amended) The vacuum device according to claim 1, wherein the cross-section of the-a throttle bypass conduit is designed for a maximum media supply.
3. (Previously Presented) The vacuum device according to claim 1, wherein the throttle device has a cross-section designed for the media supply required for standard operation.

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4. (Previously Presented) The vacuum device according to claim 1, wherein the cross-sectional area of the throttle device is adjustable.

5. (Currently Amended) The vacuum device according to claim 1, wherein the flow rate through the valve in the bypass line is adjustable.

6. (Previously Presented) The vacuum device according to claim 1, further including an adjusting means connected before each cryopump.

7. (Cancelled)

8. (Currently Amended) ~~The-A~~ vacuum system according to claim 7 comprising:

a plurality of cryopumps connected with a vacuum chamber, each cryopump including a temperature sensor;

5 a plurality of supply conduits which supply a gaseous cooling medium to the plurality of cryopumps;

a plurality of adjustable valve assemblies in the supply conduits which adjustably control an amount of the gaseous cooling medium supplied to a corresponding vacuum pump;

10 a controller connected with the temperature sensors and the adjustable valve assemblies, the controller controlling each valve assembly in accordance with a sensed temperature of a corresponding cryopump supplied by the valve assembly wherein the controlling means controller causes each valve assembly to:

supply a preselected amount of the cooling medium

15 when a sensed temperature of the corresponding cryopump is below a target temperature; and,

supply a greater increase the amount of the supplied cooling medium when the sensed temperature is warmer than the target temperature.

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9. (Currently Amended) The vacuum system according to claim 8 wherein the adjustable valve assemblies each comprise:

a first conduit which throttles the ~~compressed gaseous~~ cooling medium to supply the preselected amount;

5 a second conduit in parallel with the first, ~~the second conduit having a larger flow capacity than the first~~ to supply more than the preselected amount of the compressed cooling medium; and,

a control valve in the second conduit which controls the supply of the compressed cooling medium through the second conduit.

10. (Currently Amended) In a vacuum system including a plurality of cryopumps, each cryopump including a temperature sensor, a plurality of supply conduits which supply a compressed cooling medium to the plurality of cryopumps, a plurality of adjustable valve assemblies in the supply conduits which 5 adjustably control an amount of the compressed cooling medium supplied to an associated vacuum pump, a controller programmed to:

control the valve assemblies to supply a preselected amount of the cooling medium when a sensed temperature of the corresponding cryopump is below a target temperature; and,

10 control each one of the valve assemblies to ~~supply a greater increase~~ ~~the supplied~~ amount of the cooling medium to its corresponding cryopump when the sensed temperature of the corresponding cryopump is warmer than the target temperature.